SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE											ATTY. DOCKET NO. 09712/032001	•	SERIAL N 09/305,8		
		INFO	EME	NT	BY	APF	PLIC	CANI	ſ		APPLICANT William A. Shull et al.	•	<del></del>		
(37 CFR			era	l SI	nee	(S )	17 1	nece	essary)		FILING DATE April 28, 1999		GROUP 2878		
									***************************************	U.S. PATEN	T DOCUMENTS				
XAMINER INITIAL			P/	ATE	NT I	IUME	BER		I SSUE Date		PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA	3	6	4	7	3	0	2	03/1972	Zipin et al.					
	АВ	3	9	8	7	3	7	3	10/1976	Mohler	Mohler			(SIPA	
	AC	4	1	4	3	3	3	9	03/1979	Buzzard et al	. /			- 3t	$\overline{7}$
	AD 4 4 1 3 3 4 2 11/1983 Cohen et a						4	2	11/1983	Cohen et al.				AUG 1 6 1999 3	2)
	AE	4	6	1	7	6	6	6	10/1986	Liu			PA		1
	AF	4	6	1	1 8 9 5 7 10/1986 Liu									& MADENIARY O	
	AG 4 9 4 8 2 5 4 08/1990 Ishida						5	4	08/1990	Ishida					
	АН	5	0	2	7	3	6	1	06/1991	Kozlovsky et a	al. /				
	IA	5	0	9	1	9	1	3	02/1992	Zhang et al.					
	AJ	5	1	7	9	5	6	2	01/1993	Marason et al	. /				
	AK	5	3	8	1	4	2	7	01/1995	Wedekind et a	ι. /				
									FOREIGN PA	TENT OR PUBLISH	ED FOREIGN PATENT APPLICATION	N			
			oci	IMFI	NT N	IL JMF	RFR		PUBLICATION DATE		GOUNTERY OR	CLASS	SUBCLASS	TRANSLATION	
		DOCUMENT NUMB									PATENT OFFICE			YES NO	
	AL										<i>)</i>		WEL		
	AM											12Ke	1090		
	AN												18 1990	2800	
	AO											Μo	OGY CENT	.n.	
	AP									/		TECH	HOLOS		

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

AQ "High-power cw UV at 266 nm/Generated with Single-Frequency Verdi," Coherent Laser Group.

AR "95-SHG Intracavity Doubled Argon Laser," LEXEL LASER, INC., 2/1999.

AS "Generation of 369 4-nm Second Harmonic From a Diode Laser," NASA Tech Briefs, pp. 56, 58, January 1995.

EXAMINER DATE CONSIDERED

								4				SI	neet2_	<u>(B)</u> of <u>5</u>	
SUBSTITUTE FORM PTO-1449  (MODIFIED)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE											ATTY. DOCKET NO. 09712/032001 SERIAL NO. 09/305,808				
		INFO	TEME	NT	BY	API	PLIC	CANT	1		APPLICANT William A. Shull et al.				
(37 CFR	•		era	l Si	nee	cs 1	17 1	nece	essary)		FILING DATE April 28, 1999		GROUP 2878		
										U.S. PATEN	T DOCUMENTS			· · · · · · · · · · · · · · · · · · ·	
EXAMINER INITIAL			P#	\TE	NT I	NUME	BER		I SSUE DATE		PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	ВА	5	4	0	4	2	2	2	04/1995	Lis					
<del></del>	ВВ	5	4	6	7	2	1	4	11/1995	Heflinger et a	al.			OPE	
	ВС	5	6	2	7	8	4	9	05/1997	Baer				- 1000 W	
	BD	5	6	5	7	3	4	1	08/1997	Hyuga			/	AUG 1 6 1999 (5)	
	BE	5	7	3	2	0	9	5	03/1998	Zorabedian			/ \	AUG 1 6 1999	
<del></del> .	BF	5	7	6	8	3	0	4	06/1998	Goto				THADESCAPE OF THADESCAPE OF THE PARTY OF THE	
	BG	5	7	4	8	3	1	3	05/1998	Zorabedian					
<del></del>	ВН	5	7	4	8	3	1	5	05/1998	Kawai et al.					
-	BI	5										<del>/</del>			
	ВЈ	5	7	6	4	3	6	2	06/1998	Hill et al.					
	BK	5		6	H	_	<u> </u>	H	06/1998	Kawai et al.					
	L					L		i	FOREIGN PAT	ENT OR PUBLISHE	ED FOREIGN PATENT PPLICATI	ON		<u> </u>	
	PUBLICATION PUBLISHED													TRANSLATION	
		C	DOCUMENT NUMBER						DATE		COUNTRY OR /	CLASS ENVEN	SUBCLASS	YES NO	
	BL											Elle	مر		
	ВМ										HEL	199	9	/	
	BN										AUA	10.	2800		
	во										/	OFUCA CENI	ELL		
	ВР										TECHI				
					0	LHEI	R DO	CUN	MENTS (Includ	ding Author, Ti	tle, Date, Place of Publica	tion)			
-			Ac	dha	v, '	'Ma	ter	ials	for Optical	Harmonic Gener	ration," Laser Focus, pp. 7	3-77, June	1983.		
	BQ		1					_							
			Ва	arn	es (	et a	al.	, "\	/ariation of	the Refractive	Index with Temperature and	the Tunin	g Rate for I	KDP Isomorphs,"	
	BR		J.	.0p	t. :	Soc	. Ar	n.,	72:895-898,	July 1982.					
			Ba	um	ert	et	al	./	'High-efficie	ency Intracavity	y Frequency Doubling of a S	tyryl-9 Dy	e Laser with	h KNbO <sub>3</sub> Crystals,"	
	BS		Ar	pl	i ed	0p1	t j	s, 2	24:1299-1301	May 1, 1985.					
EXAMIN	ER					/					DATE CONSIDERED				
									ed. Draw lin p applicant.	ne through cita	tion if not in conformance	and not co	nsidered.	Include copy of	

								4				51	neet3	(C) 0	<u> </u>
SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCI (MODIFIED) PATENT AND TRADEMARK OFFICE											ATTY. DOCKET NO. 09712/032001		SERIAL 09/305,		
		INFO	EME	ENT	вч	API	PLIC	CANT	Г		APPLICANT William A. Shull et al.				
(Use several sheets if necessary) (37 CFR 1.98(b))											FILING DATE April 28, 1999	GROUP 2878			
										U.S. PATEN	DOCUMENTS				
EXAMINER INITIAL			P#	ATEN	IT I	IUMI	BER		I SSUE DATE		PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	CA	5	8	3	8	4	8	5	11/1998	de Groot et a	l.		-		
· · ·	СВ													OI	PA
	СС														5
	CD												/ 0	AU6 1	6 1999 E
	CE										HECEIVES AUG 18 1999			2	E. S.
	CF										HECE!			TRADE	MARK
	CG										ME 18 1999				
	СН										DECHNOL SOLCHWEE	2800			
	CI										<b>TECHNOLOGY</b>				
	Cl														
	CK									[)					
									FOREIGN PA	TENT OR PUBLISHE	FOREIGN PATENT APPLICATI	ON			
	DOCUMENT NUMBER					LUME	BER		PUBLICATION DATE		COUNTRY OR	CLASS	SUBCLASS	TRANSLATION	
		DOCOMENT NOMBER									PATENT OFFICE			YES	NO
	CL														
	СМ														
	CN														1
	со														
- 11	CP														

Dalton, "Glass to Metal Seals," First Symposium on the Art or Glassblowing", pp. 13-24, 1956.

CQ

Dmitriev et al. "Three- and Four-Wave (Three- and Four-Frequency) Interactions in Nonlinear Media,"

Kandbook of Monlinear Optical Crystals, 3-14 and 188-191.

Hercher, Tunable Single Mode Operation of Gas Lasers Using Intracavity Tilted Etalons," Applied Optics,

8:1103-1106, June 1969.

EXAMINER

DATE CONSIDERED

										s	heet4	<u>(D)</u> of	5	
SUBSTITUTE FORM PTO-1449  (MODIFIED)  U.S. DEPARTMENT OF COMMER PATENT AND TRADEMARK OFFI									ATTY. DOCKET NO. 09712/032001		SERIAL 09/305,			
		STATI	RMATIC EMENT	BY A	PPLI	CANT			APPLICANT William A. Shull et al.					
(37 CFR			at 51	icets	" "	ilece	:55di y)		FILING DATE April 28, 1999		GROUP 2878			
								U.S. PATEN	T DOCUMENTS					
EXAMINER INITIAL			PATE	NT NU	MBER		I SSUE DATE		CLASS	SUBCLASS	FILING-DATE IF APPROPRIATE			
	DA													
	DB				$\top$	П						011	ST.	
	DC								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				12	
	DD					П			2 11 000	97		AUG 1 (	6 1999 G	
	DE										1	Ž.		
	DF				1			<i>y</i>	, α	1998		TRADE	MARK	
	DG								AUG	TER 2800				
,	DH								AUG TO	JE 1 1 2 1				
	DI						,							
	DJ								2/					
·	DK									1				
	l					LL	FORE GN PAT	ENT OR PUBLISH	D FOREIGN PATENT APPLICA	TION		I		
							PUBLICATION					TRANSLATION		
		DOCUMENT NUMBER					DATE		COUNTRY OR V	CLASS	SUBCLASS	YES	NO	
	DL						1					<u></u>		
	DM												-	
	DN						/							
	DO							/	Mari - J. Mari					
	DP							<u>.                                    </u>						
	I	1		отн	ER D	OCUM	ENTS (Includ	ling Author, Ti	tle, Date, Place of Publi	cation)		L		
			Kogel	lnik	et a	ι.,/	Astigmatica	illy Compensate	d Cavities for cw Dye Las	ers," IEEE J	ournal of Q	uantum		
	DQ					$-\!\!\!/-$	3:373-379, Ma				<b>8</b> 14			
		-												

									s	heet <u>5</u>	<u>(E)</u> of	5	
SUBSTITU (MODIFIE		M PTO-14	449				ENT OF COMMERCE RADEMARK OFFICE	ATTY. DOCKET NO. 09712/032001	•	SERIAL 1 09/305,8			
		INFORMAT	NT BY	API	PLIC			APPLICANT William A. Shull et al.					
(37 CFR			31100	:::3		ecessal y)		FILING DATE April 28, 1999		GROUP 2878			
							U.S. PATEN	T DOCUMENTS					
EXAMINER INITIAL		PA.	TENT	NUMI	BER	I SSUE DATE		PATENTEE	CLASS	SUBCLASS	FILING IF APPR	DATE COPRIATE	
	EA												
	EB									/			
	EC										OIB	200	
	ED											-	
	EE										AU6 1 6	1999 %	
	EF									The state of the s	n	23	
	EG				$\prod$				1	1	TRADES	MARK	
	EH												
	EI											-	
	EJ				П								
	EK												
						FOREIGN PA	TENT OR PUBLISH	ED FOREIGN PATENT APPLICA	Ł1 ON				
		DOGU	45MT			PUBLICATION DATE		COUNTRY OR	61.460	011001 400	TRANSLATION		
	DOCUMENT NUMBER				3EK	DATE		PATENT OFFICE	CLASS	SUBCLASS	YES	NO	
	EL							7 1					
	EM					1/							
	EN							RECE	EVED				
	EO												
•	EP				7			AUG 1	8 1999				
				THE	יחחו	CIMENTS (Inclu	ding Author Ti	TECHNOLOGY tle, Date, Place of Public	CENTER 2800				
			U	INCR	· DOL	JOHEN 13/ (INCLU	uning Author, Tri	ice, vace, reace of rubin	Jac 10/1/				

Spiller, "Experimental Investigations on Gain and Maximum Output of the He-Ne Laser," Zeitschrift fur Physik,

182:487-498 (1965).

Stoleru et al., "Frequency Doubling of He-Ne Laser Radiation at 632.8 nm," Pure Appl. Opt., 5:119-124 (1996).

Adhav et al., "Guide to Efficient Doubling," Laser Focus, pp. 47-48, May 1974.

EXAMINER

DATE CONSIDERED